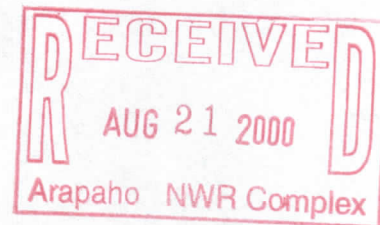


RW/ARP 4.5
Refuge Operations
Mail Stop 60130



August 16, 2000

Ms. Georgianna Contiguglia
State Historic Preservation Officer
Colorado Historical Society
1300 Broadway
Denver, Colorado 80203

Dear Ms. Contiguglia:

Enclosed for your review and comment is a cultural resource inventory report entitled *Whistlin' Dixie Project: A Cultural Resource Inventory on Arapaho National Wildlife Refuge, Walden, Colorado*. Four historic isolated finds and one prehistoric isolated find were recorded during the study. None of these resources are eligible for nomination to the National Register of Historic Places.

Please address your comments or any questions to me at the above address, by telephone at 303-236-8145, extension 628, or e-mail at Rhoda_Lewis @fws.gov.

Sincerely,

/s/ RHODA O. LEWIS

Rhoda Owen Lewis
Regional Archaeologist

Enclosure

bcc: RO rf
Rhoda Lewis
Mark Lanier (Arapaho NWR with enclosure)
Larry Shanks
rwfiles, rwr

ROLewis:met:Directory H:\RhodaLewis\whistlin'dixie shpo.wpd 8-16-2000

WHISTLIN' DIXIE PROJECT: A CULTURAL
RESOURCE INVENTORY ON
ARAPAHO NATIONAL WILDLIFE REFUGE
WALDEN, COLORADO

RHODA OWEN LEWIS
U.S. FISH AND WILDLIFE SERVICE
REGION 6
DENVER, COLORADO
August 16, 2000

ABSTRACT

A cultural resource inventory of 147 acres was completed on the Arapaho National Wildlife Refuge in Jackson County, Colorado. The inventory was conducted in compliance with Section 106 of the National Historic Preservation Act and the Archeological Resources Protection Act of 1979 as amended.

Four historic isolated finds and one prehistoric isolated find were recorded during the study. None of the resources are eligible for nomination to the National Register of Historic Places.

INTRODUCTION

On April 18 and June 12, 2000, a cultural resource inventory of 147 acres was completed on Arapaho National Wildlife Refuge in Jackson County, Colorado. Thick sagebrush stands will be thinned out using a Dixie harrow in order to rejuvenate understory grasses and forbs within the project areas. Rhoda Lewis, U.S. Fish and Wildlife Service Regional Archaeologist, conducted the inventory. The cultural resource inventory was conducted under Sections 106 of the National Historic Preservation Act and the Archeological Resources Protection Act of 1979 as amended.

SURVEY AREA

Arapaho National Wildlife Refuge is located south of Walden, Colorado in North Park. The Refuge was established in 1967 to provide nesting habitat for waterfowl and other migratory birds.

The elevation of the Refuge ranges between 8,100 feet and 8,700 feet. The Refuge contains three major ecosystems: meadow; sagebrush grassland; and the ponds, wetlands, and Illinois River. The Illinois River runs north/south through the eastern portion of the Refuge. The project areas are located within the sagebrush grassland ecosystem. Vegetation in the sagebrush grassland includes big sagebrush, greasewood, winterfat, mat saltbrush, alkali sagebrush, rabbitbrush, and various grasses.

The project has been divided into two areas: 00ARP001 is located west of State Highway 125 and north of County Road 34. ARP001-A is located in an northeast/southwest trending drainage that lies east of the highway. Elevation in the project areas range from 8,300 feet on the east side of area 00ARO001-A to 8,360 feet in area 00ARP001. The project is located on north/south trending ridge bordered on the east by the Illinois River flood plain, on the south by the Soap Creek drainage and on the west by irrigated hay meadows. The ridge is a high points that provides an excellent view of the surrounding area.

The project locations are marked on Figure 1. The legal locations are:

T07N R79W E/NW, NE/SW, NW/SE, W/NE, W/W/NE/NE, W/W/SE/NE
NW/NE/SE, S/SE/SE/NE, and N/NE/SE Section 7

LITERATURE SEARCH

A file search was conducted of the records maintained by the U.S. Fish and Wildlife Service in Denver. Four large cultural resource studies have been conducted on the Refuge; Guthrie (1981a and b),

Duke (1982), and Meyer and Riches (1978 and 1979). Smaller projects have also been conducted on the Refuge including work by the Service, the Colorado Highway Department, and Pronghorn Anthropological Associates. Area 00ARP001 was inventoried by Fort Lewis College and report on in Meyer and Riches (1979). Two isolated finds were located within the project boundaries during the 1979 study. Both isolated finds were projectile points.

Based on the results of the previous work on the Refuge, site density across the Refuge is generally low. Duke (1982) inventoried 2,040 acres and recorded 20 isolated finds. Two of the isolated finds were assigned to the Apex Complex (ca. 3000-500 B.C.). Guthrie inventoried 1,200 acres and recorded six isolated finds and two sites. One isolated find and one site were assigned to the Late Prehistoric (after 500 A.D.) Meyer and Riches inventoried 1,105 acres in 1978 and recorded no sites nor isolated finds. Meyer and Riches inventoried approximately 4000 acres in 1979 and recorded five sites and four isolated finds. One site was identified as Archaic and another as historic Ute; one of the isolated finds was identified as Late Archaic to Contact. All of the sites and isolated finds recorded during these studies were prehistoric. Several historic sites were recorded on the Refuge in the 1990s. Most of these sites were recorded under section 110 of the National Historic Preservation Act and are not project related.

Using the results of the four large inventories conducted on the Refuge in the late 1970s and early 1980s, we find a prehistoric site frequency of one site per 1192 acres. If the isolated finds are included in the equation, site density increased to one every 226 acres. Within the project area, site density was one prehistoric site (isolated find) per 74 acres.

Although transect intervals were 15 meter intervals during the 1979 study which should be adequate to locate any resources, the Service decided to re-inventory the project area to verify accuracy of the 21 year old work.

CULTURE HISTORY

Cultural chronologies for the North Park area are available in Guthrie (1981), Duke (1982), and on a broader scale in Gilmore and others (1999) and will not be reiterated here. Previously recorded sites on the Refuge indicate occupation of the area from the Archaic Period through historic times.

FIELD METHODS

The western project area (00ARP001) was inspected by walking 20 meter wide north/south transects across the area to be harrowed. Area 00ARP001-A was inspected by walking northeast/southwest transects along the contours of the drainage cut.

Cultural locations were recorded as sites or as isolated finds. Sites and isolated finds are locations of past human activities. A prehistoric site is defined as a location with six or more non-diagnostic artifacts or three or more artifacts if diagnostic materials are present. An historic site is defined as a location with features or remains indicative of permanent use, i.e. buildings or water control structures.

The locations of cultural resources were plotted on a U.S.G.S. topographic map. Colorado Cultural Resource Survey Isolated Find Record forms were completed for all locations.

INVENTORY RESULTS

Four historic isolated finds and one prehistoric isolated find were identified and recorded in area 00ARP001. No cultural resources were located in area 00ARP001-A.

5JA1159

5JA1159 is a scatter of historic trash, probably the remains of a sheepherder camp, located on western edge of the project area. Artifacts included tin cans, fragments of a brown stoneware jug, blue glazed stoneware fragments, pink milk glass fragments, green glass, and one white china fragment. The neck and handle of the stoneware jug were intact. A 2-track road lies adjacent to and west of the isolated find. The scatter measures 8m east/west by 10m north/south.

5JA1160

5JA1160 is a small scatter of chipped stone. A yellow chert core, two flakes from the core, and two red chert flakes were located. The flakes are scattered over an area that measures 4.8 meters northeast/southwest by 1.4m northwest/southeast. No time diagnostic artifacts were observed.

5JA1161

The isolated find is a scatter of historic trash, probably the remains of a sheepherder camp, located on the southern edge of the project area between a 2-track road and County Road 34. Artifacts include tin cans (coffee, syrup, and milk cans), clear and green glass including a complete clear glass jar with a lid. The jar bottom has the following information: DESIGN PATD. over a stylized in the center. The numerals 5527-11 are along the lower edge of the jar bottom. The scatter measures 7m north/south by 7.5m east/west.

5JA1162

5JA1162 is a scatter of historic trash, probably the remains of a

shepherd camp, located along the north edge of the project area just south of a 2-track road that runs parallel to an east/west fence line. Artifacts include a light scatter of tin cans, purple, blue and brown glass, a blue enamel pan, a metal garden hoe blade, a basal fragment of a stoneware jug (interior brown glaze, exterior white/grey glaze), a metal baking powder can lid for *MOREY'S BAKING POWDER* and a white glass jar marked *MENTHOLATUM CO BUFFALO NY WICHITA KAN*. The scatter measures 9m east/west by 7m north/south.

5JA1163

The isolated find is a scatter of historic trash, probably the remains of a shepherd camp, located on the north side of a 2-track road near the southern boundary of the project area. Artifacts included tin cans, white dinnerware shards (one is a cup handle), stoneware with a green-and-white checked glaze pattern, a zinc ball jar lid with rubber ring, stoneware with a blue strip glaze, a metal zipper, white ware with an embossed daisy pattern, and clear and aqua glass. The scatter measures 3.5m east/west by 5m north/south.

RECOMMENDATIONS AND MANAGEMENT SUGGESTIONS

None of the five isolated finds are considered eligible for nomination to the National Register of Historic Places. The results of this study verify the adequacy of the 1979 inventory. The isolated lithic scatter, 5JA1160, could have been missed, even with 15m transect spacing. Very few archaeologists were recording shepherd camps in the late 1970s, so their omission is not unexpected. The addition of 5JA1160 to the recorded cultural resources within area 00ARP001 brings the site density to one prehistoric site (isolated find) per 49 acres. No cultural resources were located in area 00ARP001-A.

Since no significant cultural resources were identified in project area 00ARP001 or ARP001-A, the harrowing project may proceed.

REFERENCES

- Duke, P. G.
1982 *A Cultural Resource Survey and Site Location Analysis: Arapaho National Wildlife Refuge, Colorado.* Fort Lewis College, Durango, CO. Submitted to the U.S. Fish and Wildlife Service. Contract No. RFQ-FWS-SL-82-01.
- Gilmore, K.P., M. Tate, M. L. Chenault, B. Clark, T. McBride, and M. Wood
1999 *Colorado Prehistory: A Context for the Platte River Basin.* Volume submitted to the Colorado Council of Professional Archaeologist by Tate and Associates, Inc. and SWCA, Inc. Environmental Consultants.
- Guthrie, M. R.
1981a *An Intensive Cultural Resource Survey and Examination of Settlement Patterns for a Small Project in North Park, Jackson County, Colorado.* Archaeological Research Institute, University of Denver. Submitted to the U.S. Fish and Wildlife Service. Contract No. RFQ-FWS-SL-81-02.
- 1981b *An Intensive Cultural Resource Survey and Examination of Settlement Patterns for a Small Project in North Park, Jackson County, Colorado, Appendix.* Archaeological Research Institute, University of Denver. Submitted to the U.S. Fish and Wildlife Service. Contract No. RFQ-FWS-SL-81-02.
- Meyer, J. S. and S. M. Riches
1978 *Cultural Resource Survey Arapaho National Wildlife Refuge.* Fort Lewis College. Submitted to the U.S. Fish and Wildlife Service. Contract No. 65100-1285.
- 1979 *Cultural Resource Survey Arapaho National Wildlife Refuge Area.* Fort Lewis College. Submitted to the U.S. Fish and Wildlife Service. Contract No. 65100-0331.

Figure 1: 00ARP001, facing northeast
from site 05JA1162.

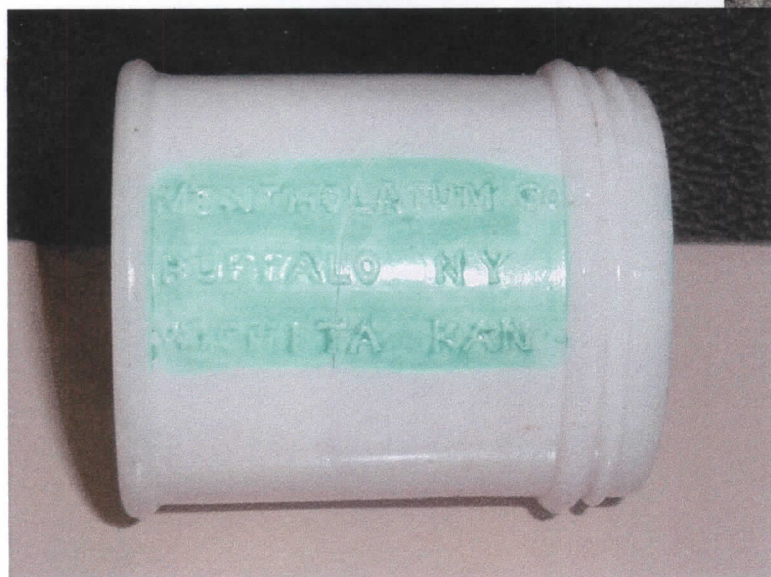
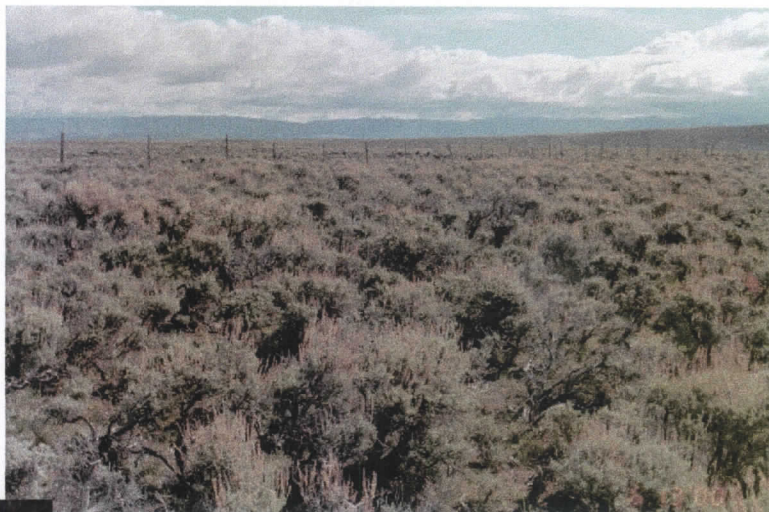
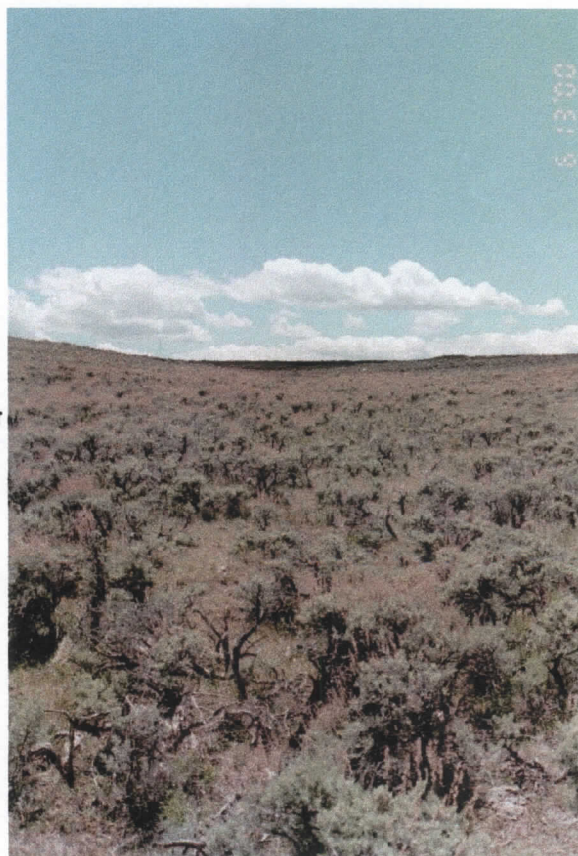
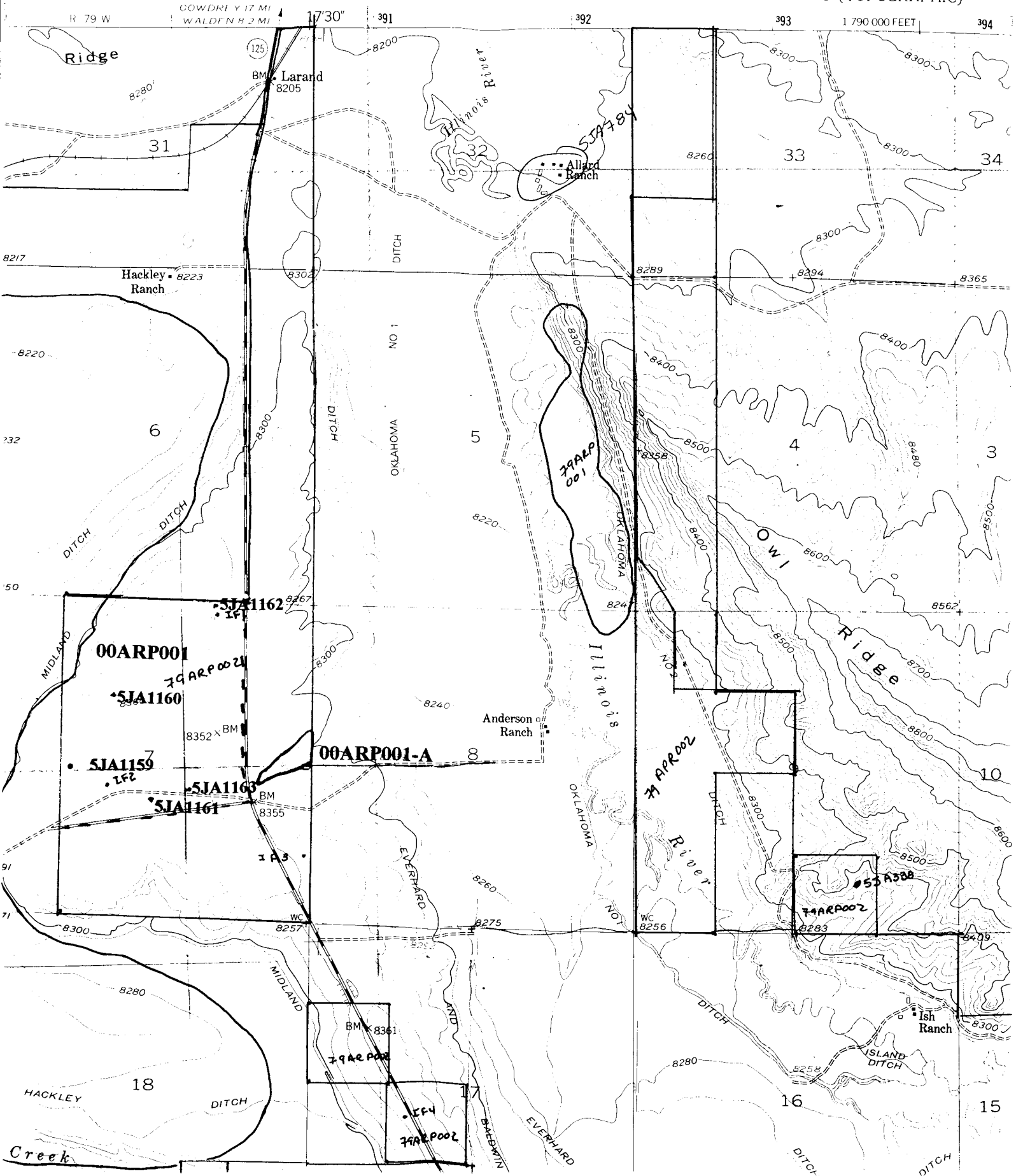


Figure 2: Mentholatum jar from 05JA1162

Figure 3: 00ARP001-A, facing
southwest.



MAC FARLANE RESERVOIR QUADRANGI
COLORADO-JACKSON CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



COLORADO CULTURAL RESOURCE SURVEY
Isolated Find Record

OAHF1408
Rev. 9/98

I. IDENTIFICATION AND LOCATION

1. Resource No.: 5JA1159 2. Temp. Resource Number: 00ARP001-1
3. County: Jackson
4. Legal Location: PM 6th Township 7N Range 79W
Sec 7; NW 1/4 NW 1/4 NE 1/4 SW 1/4
If section is irregular, explain alignment method _____

5. UTM's: Zone 13 3 8 9 4 4 0 mE, 4 4 9 4 0 2 0 mN.
6. USGS Quad Name: MacFarland Reservoir
Date: 1955 Sketch/Trace Here _____

II. ARCHAEOLOGICAL DATA

7. Artifacts: Fragment of pink milk glass, ca, 30 tin cans,
the majority were hole-in-the-top, fragments of a
brown stoneware jug, blue glazed stoneware
fragments, 1 white china fragment, green glass

8. IF Dimensions: 10mN/S X 8mE/W OR Single Artifact _____

9. Inferred Function(s): Shepherd camp

10. Cultural Affiliation/Time Period: Unknown

11. Comments: _____

III. ENVIRONMENTAL DATA

12. Elevation: Feet 8360 Meters 2548

13. Soil: Sandy loam with gravel inclusions

14. Topography: Flat approximately 1 1/2 mile west of the Illinois River, The area is the high point for
over a mile in all directions.

15. Slope: Site 0 Surrounding 20 degrees to the west of the site

16. Nearest Water: Name/Nature: Soap Creek, permanent drainage
Elevation 8220 Distance ca 1 1/4 mile Direction south

17. Vegetation: Sagebrush community

IV. REFERENCE DATA

18. Collection: Yes _____ No X Describe _____

19. Repository: _____

20. Landowner: U.S. Fish and Wildlife Service, Arapaho NWR, Walden, Colorado

21. Report Title: Whistlin' Dixie Project, A Cultural Resource Inventory on Arapaho NWR, Jackson
County

22. Recorder(s): Rhoda O. Lewis

23. Recorder Affiliation: U.S. Fish and Wildlife Service

24. Date(s): April 18, 2000

Colorado Historical Society - Office of Archaeology & Historic Preservation
1300 Broadway, Denver, CO 80203
303-866-3395

Isolated Find Record

Rev. 9/98

I. IDENTIFICATION AND LOCATION

1. Resource No.: 5JA1160 2. Temp. Resource Number: 00ARP001-2
3. County: Jackson
4. Legal Location: PM 6th Township 7N Range 79W
 Sec 7; NW 1/4 NE 1/4 SE 1/4 NW 1/4
 If section is irregular, explain alignment method _____
5. UTM's: Zone 13, 3 8 9 6 4 0 mE, 4 4 9 4 3 8 0 mN.
6. USGS Quad Name: MacFarland Reservoir
 Date: 1955

II. ARCHAEOLOGICAL DATA

7. Artifacts: Yellow chert core, 2 yellow chert flakes,
2 red chert flakes

Sketch/Trace Here

5JA1159

- △ Core and Datum
 • Yellow Chert Flakes
 □ Red Chert Flakes



8. IF Dimensions: 4.8mNE/SW X 1.4mNW/SE OR Single Artifact _____
9. Inferred Function(s): Chipping Station
10. Cultural Affiliation/Time Period: Unknown
11. Comments: _____

III. ENVIRONMENTAL DATA

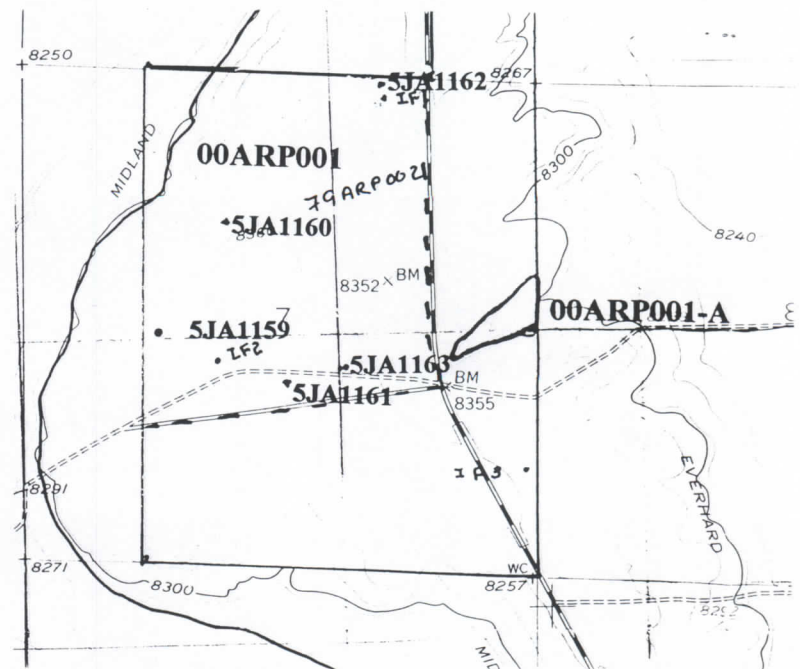
12. Elevation: Feet 8360 Meters 2548
13. Soil: Sandy loam with gravel inclusions
14. Topography: Flat approximately 1 1/2 mile west of the Illinois River, The area is the high point for over a mile in all directions.
15. Slope: Site 0 Surrounding 20 degrees to the west of the site
16. Nearest Water: Name/Nature: Soap Creek, permanent drainage
 Elevation 8220 Distance ca 1 1/2 mile Direction south
17. Vegetation: Sagebrush community

IV. REFERENCE DATA

18. Collection: Yes ___ No X Describe _____
19. Repository: _____
20. Landowner: U.S. Fish and Wildlife Service, Arapaho NWR, Walden, Colorado
21. Report Title: Whistlin' Dixie Project; A Cultural Resource Inventory on Arapaho NWR, Jackson County
22. Recorder(s): Rhoda O. Lewis
23. Recorder Affiliation: U.S. Fish and Wildlife Service
24. Date(s): April 18, 2000



Figure 1: 5JA1160, facing north.



Isolated Find Record

Rev. 9/98

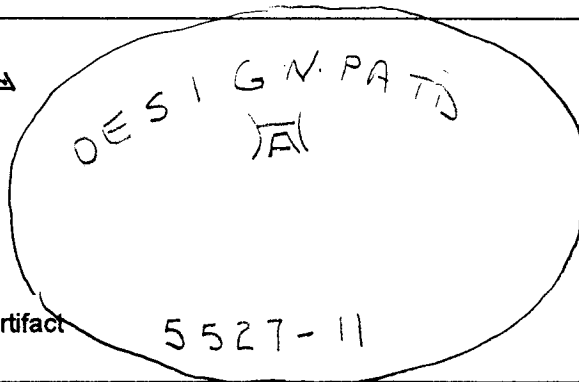
I. IDENTIFICATION AND LOCATION

1. Resource No.: 5JA1161 2. Temp. Resource Number: 00ARP001-3
3. County: Jackson
4. Legal Location: PM 6th Township 7N Range 79W
 Sec 7; NW 1/4 SW 1/4 NE 1/4 SE 1/4
 If section is irregular, explain alignment method _____
5. UTM's: Zone 13 , 3 8 9 8 3 0 mE, 4 4 9 3 8 4 0 mN.
6. USGS Quad Name: MacFarland Reservoir
 Date: 1955

II. ARCHAEOLOGICAL DATA

Jar Bottom

7. Artifacts: Ca. 30 cans including coffee cans, syrup can, small solder dot can milk cans; clear and green glass including the rim of a green canning jar; and a complete clear glass jar with lid.
8. IF Dimensions: 7mN/S X 7.5mE/W OR Single Artifact
9. Inferred Function(s): Shepherd camp
10. Cultural Affiliation/Time Period: Unknown
11. Comments: _____



III. ENVIRONMENTAL DATA

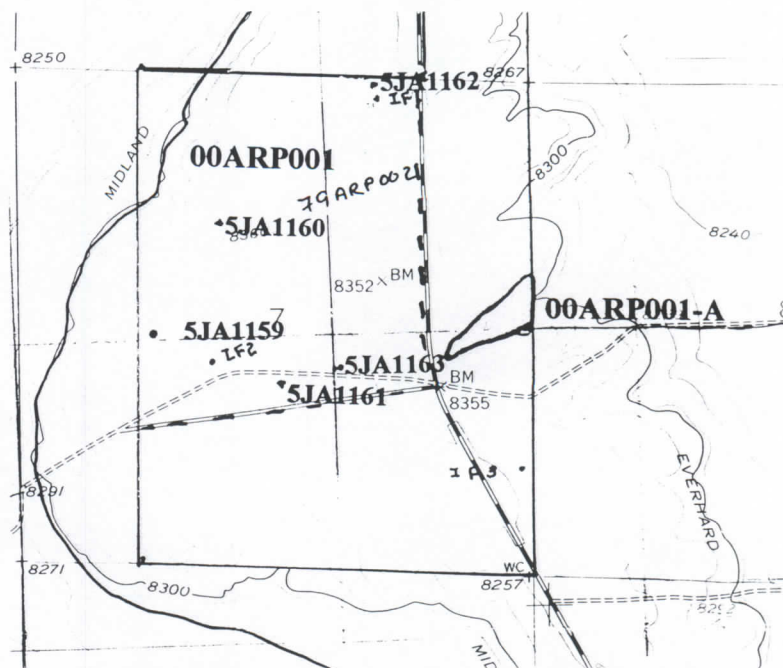
12. Elevation: Feet 8360 Meters 2548
13. Soil: Sandy loam with gravel inclusions
14. Topography: Flat approximately 1 1/2 mile west of the Illinois River, The area is the high point for over a mile in all directions.
15. Slope: Site 0 Surrounding 20 degrees to the west of the site
16. Nearest Water: Name/Nature: Soap Creek, permanent drainage
 Elevation 8220 Distance ca 1 1/4 mile Direction south
17. Vegetation: Sagebrush community

IV. REFERENCE DATA

18. Collection: Yes ☐ No ☒ Describe _____
19. Repository: _____
20. Landowner: U.S. Fish and Wildlife Service, Arapaho NWR, Walden, Colorado
21. Report Title: Whistlin' Dixie Project; A Cultural Resource Inventory on Arapaho NWR, Jackson County
22. Recorder(s): Rhoda O. Lewis
23. Recorder Affiliation: U.S. Fish and Wildlife Service
24. Date(s): April 18, 2000



Figure 1: 5JA1161, glass jar with led



Isolated Find Record

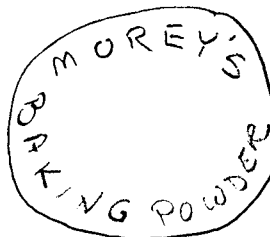
I. IDENTIFICATION AND LOCATION

1. Resource No.: 5JA1162 2. Temp. Resource Number: 00ARP001-4
3. County: Jackson
4. Legal Location: PM 6th Township 7N Range 79W
Sec 7; NE 1/4 NE 1/4 NW 1/4 NE 1/4
If section is irregular, explain alignment method _____
5. UTM's: Zone 13, 3 9 0 1 4 0 mE, 4 4 9 4 8 2 0 mN.
6. USGS Quad Name: MacFarland Reservoir
Date: 1955

II. ARCHAEOLOGICAL DATA

Sketch/Trace Here

7. Artifacts: Ca. 20+ tin cans; purple, blue, brown, and clear bottle glass; a blue enamel pan; metal garden hoe blade, part of the base of a stoneware jug, a metal baking powder can lid; and a white glass "Mentholatum CO Buffalo NY Wichita KAN" jar
8. IF Dimensions: 9m E/W X 7mN/S OR Single Artifact _____
9. Inferred Function(s): Shepherd camp
10. Cultural Affiliation/Time Period: Unknown
11. Comments: _____



III. ENVIRONMENTAL DATA

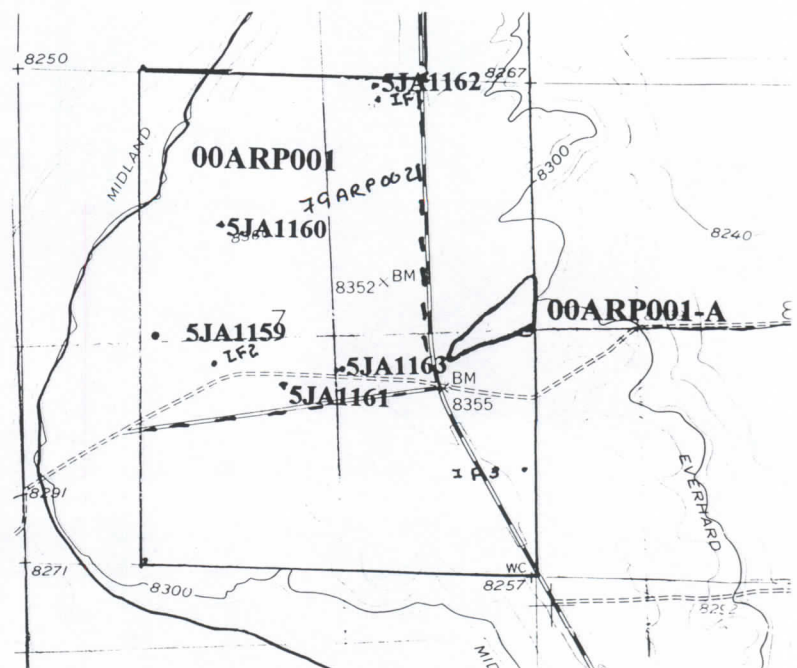
12. Elevation: Feet 8360 Meters 2548
13. Soil: Sandy loam with gravel inclusions
14. Topography: Flat approximately 1 1/2 mile west of the Illinois River. The area is the high point for over a mile in all directions.
15. Slope: Site 0 Surrounding 20 degrees to the west of the site
16. Nearest Water: Name/Nature: Illinois River, Permanent drainage
Elevation 8220 Distance ca 1 1/2 mile Direction east
17. Vegetation: Sagebrush community

IV. REFERENCE DATA

18. Collection: Yes ___ No X Describe _____
19. Repository: _____
20. Landowner: U.S. Fish and Wildlife Service, Arapaho NWR, Walden, Colorado
21. Report Title: Whistlin' Dixie Project; A Cultural Resource Inventory on Arapaho NWR, Jackson County
22. Recorder(s): Rhoda O. Lewis
23. Recorder Affiliation: U.S. Fish and Wildlife Service
24. Date(s): June 12, 2000



Figure 1: 5JA1162, enamel pan



Isolated Find Record

Rev. 9/98

I. IDENTIFICATION AND LOCATION

1. Resource No.: 5JA1163 2. Temp. Resource Number: 00ARP001-5
3. County: Jackson
4. Legal Location: PM 6th Township 7N Range 79W
 Sec 7; SW 1/4 NE 1/4 NW 1/4 SE 1/4
 If section is irregular, explain alignment method _____
5. UTM's: Zone 13 3 9 0 0 4 0 mE, 4 4 9 3 9 0 0 mN.
6. USGS Quad Name: MacFarland Reservoir
 Date: 1955

II. ARCHAEOLOGICAL DATA

Sketch/Trace Here

7. Artifacts: Ca. 30+ tin cans ranging in size from
sardine cans to coffee cans; white dinner ware shards
including a cup handle; stone ware with a green
glaze pattern, zinc Ball jar lid with rubber ring;
stoneware with a blue strip glaze; metal zipper;
clear and aqua glass.



Green Glaze Pattern

8. IF Dimensions: 3.5m E/W X 5mN/S OR Single Artifact _____
9. Inferred Function(s): Shepherd camp
10. Cultural Affiliation/Time Period: Unknown
11. Comments: _____

III. ENVIRONMENTAL DATA

12. Elevation: Feet 8360 Meters 2548
13. Soil: Sandy loam with gravel inclusions
14. Topography: Flat approximately 1 1/2 mile west of the Illinois River, The area is the high point for
over a mile in all directions.
15. Slope: Site 0 Surrounding 20 degrees to the west of the site
16. Nearest Water: Name/Nature: Soap Creek Permanent drainage
 Elevation 8220 Distance ca 1 1/4 mile Direction south
17. Vegetation: Sagebrush community

IV. REFERENCE DATA

18. Collection: Yes ___ No X Describe _____
19. Repository: _____
20. Landowner: U.S. Fish and Wildlife Service, Arapaho NWR, Walden, Colorado
21. Report Title: Whistlin' Dixie Project; A Cultural Resource Inventory on Arapaho NWR, Jackson
County
22. Recorder(s): Rhoda O. Lewis
23. Recorder Affiliation: U.S. Fish and Wildlife Service
24. Date(s): June 12, 2000



Figure 1: 5JA1163, facing south/southeast

